

OPTICAL RECORDING AND REPRODUCING DEVICE

Patent number: JP63306546
 Publication date: 1988-12-14
 Inventor: HORIKAWA YOSHIAKI
 Applicant: OLYMPUS OPTICAL CO
 Classification:
 - international: G11B7/135
 - european:
 Application number: JP19870142220 19870609
 Priority number(s): JP19870142220 19870609

[Report a data error here](#)

Abstract of JP63306546

PURPOSE: To sharply increase the recording capacity of an information recording medium by arranging a condenser lens for forming a condensing point on a position conjugate with a recording layer in front of a detector and positioning a pin hole on the condensing point.

CONSTITUTION: The condenser lens 6 for forming its condensing point on a position conjugate with the recording layer 5b is arranged in front of the detector 8 and the pin hole 7 is positioned on the condensing point to constitute a detecting system as a confocal system. Since the pin hole 7 is arranged on the condensing position of the condenser lens 6 which is a conjugate position with the recording layer 5b, reflected light from recording layers 5a, 5c other than the recording layer 5b is not reached to the detector 8. Thereby, only the information on the recording layer 5b is detected. Even if an interval between the recording layers in the information recording medium is short, no detecting error is generated, so that the recording capacity of the information recording medium can be sharply increased.

